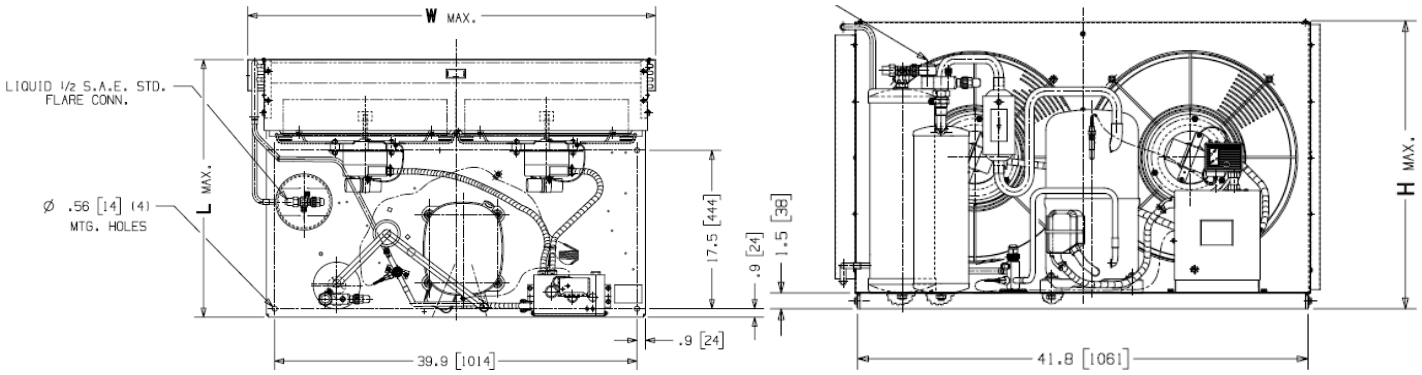
Tecumseh Compressor Company
Indoor Condensing Units

August 20, 2014
Revision: REL

Model: AGA9542ZXGXM **BoM: 2A5094-1** **R-404A** **5+ HP** **AIRCOOLED**



Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AGA9542ZXGXM	28.8	44.9	26.9	18.3	7/8" F	1/2" F	30.2 lbs	3700	66	285
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	23.6	23137	4292	89	19097	4243	98	16180	4127	108	13100	3944	117
-5	28.8	26160	4607	91	22285	4599	100	18881	4487	109	15664	4357	118
0	32.6	29547	4931	93	25743	4958	102	21834	4856	111	18452	4775	120
5	38.6	33295	5262	95	29469	5321	103	25039	5232	113	21466	5197	121
10	43.1	37406	5602	96	33464	5688	105	28497	5618	114	24705	5622	123
15	49.9	41880	5949	98	37729	6060	106	32208	6011	116	18169	6053	125
20	55.3	46716	6305	100	42262	6435	108	36171	6413	118	31858	6487	126
25	63.0	51914	6668	102	47064	6814	110	40387	6823	120	35771	6925	128
30	69.3	57475	7040	104	52135	7197	112	44855	7242	121	39910	7368	130
35	78.1	63398	7419	106	57475	7585	113	49576	7669	123	44274	7815	132
40	85.4	69683	7807	108	63085	7976	115	54549	8104	125	48863	8267	134
45	95.2	76331	8202	110	68962	8372	117	59775	8548	127	53677	8722	135

60 Hz Performance

Return gas temp. 40°F Evaporator Temp. 20°F or less, 5°F sub-cooling
Return gas temp. 65°F for Evaporator Temp. > 20°F, 5°F sub-cooling

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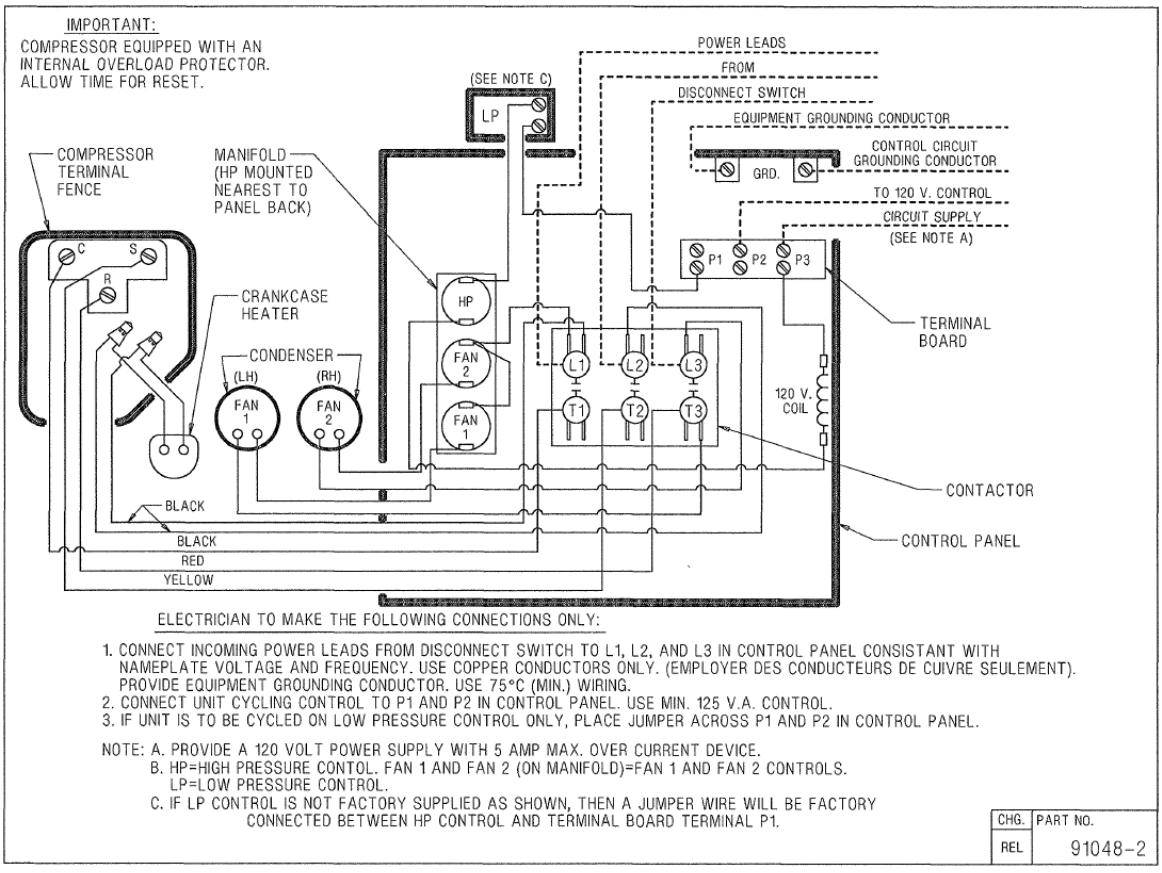
Specifications/ Parts:

Model	AGA9542ZXGXM
Unit Bill of Material	2A5094-1
Nominal Volts/Hz/Ph	460/60/3
Refrigeration Range	-10° to 45°F
Design Pressure Low	181
Design Pressure High	450
Voltage Range	414-506
Min. Circuit Ampacity	14.6
Max. Fuse Size (amps)	20
Compressor Model	AGA9534ZXG
Comp. Bill of Material	AG144WT-001-P2
Compressor RLA/LRA	9.9 / 75
Overload	INTERNAL
Relay	N/A
Run Capacitor	N/A
Run Capacitor Rating	N/A
Start Capacitor	N/A
Start Capacitor Rating	N/A
Contactor	91014-1
Unit Drawing	SU1901-7
Wiring Diagram	91048-2

Fan Motor	810S186B39 (2)
Fan Motor RLA	1.0 Each
Fan Blade	51528-3 (2)
Fan Guard	70832 (2)
Fan Shroud	70611-1
High Pressure Control	84095-2
Condenser	50777-6
Receiver Tank	51082-2K
Liquid Valve	31585-A
Liquid Valve Gasket	30233
Fan Switch	84094-1
Fan Switch	84094-2
Suction Valve	31576
Rotolock Valve Gasket	30233
Discharge Valve	56596-A
Suction Filter *	70822
Accumulator *	TK00044000
Crankcase Heater *	90699
Low Pressure Control *	84026-2
* = Equipped Units Only	

Electrical Diagram


IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
POWER LEADS FROM DISCONNECT SWITCH
EQUIPMENT GROUNDING CONDUCTOR
CONTROL CIRCUIT GROUNDING CONDUCTOR
GRD.
TO 120 V. CONTROL CIRCUIT SUPPLY (SEE NOTE A)
(SEE NOTE C)
LP
COMPRESSOR TERMINAL FENCE
MANIFOLD (HP MOUNTED NEAREST TO PANEL BACK)
C
S
R
CRANKCASE HEATER
CONDENSER
(LH)
(RH)
FAN 1
FAN 2
HP
FAN 2
FAN 1
P1
P2
P3
TERMINAL BOARD
L1
L2
L3
T1
T2
T3
120 V. COIL
CONTACTOR
CONTROL PANEL
BLACK
BLACK
RED
YELLOW
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, AND L3 IN CONTROL PANEL CONSISTANT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT). PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P1 AND P2 IN CONTROL PANEL. USE MIN. 125 V.A. CONTROL.
3. IF UNIT IS TO BE CYCLED ON LOW PRESSURE CONTROL ONLY, PLACE JUMPER ACROSS P1 AND P2 IN CONTROL PANEL.
NOTE: A. PROVIDE A 120 VOLT POWER SUPPLY WITH 5 AMP MAX. OVER CURRENT DEVICE.
B. HP=HIGH PRESSURE CONTOL. FAN 1 AND FAN 2 (ON MANIFOLD)=FAN 1 AND FAN 2 CONTROLS. LP=LOW PRESSURE CONTROL.
C. IF LP CONTROL IS NOT FACTORY SUPPLIED AS SHOWN, THEN A JUMPER WIRE WILL BE FACTORY CONNECTED BETWEEN HP CONTROL AND TERMINAL BOARD TERMINAL P1.
CHG.
PART NO.
REL
91048-2